

CLAIMS:

Sub. a1 >

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1. In a free fall simulator wherein a cylindrical wall is provided, said wall defining a chamber, means for generating a column of air under pressure in said chamber, said column of air moving from bottom to top, the pressure being sufficient to support one or more flyers therein, said wall having a surface, said surface being contiguous with and defining the diameter of said column, the surface of said wall being smooth such that said column of air moves in laminar flow in at least an upstream portion of said column of air.

[illegible]

2. The free fall simulator of Claim 1 wherein the diameter of said column of air is variable within said chamber.

Sub.¹⁰. a2 >

2> 3. The free fall simulator of Claim 1 wherein a camera is provided within said chamber, said camera being remotely positionable to photograph said flyers against the background provided by the walls of said chamber.

Sub. a2>

4. The free fall simulator of Claim 1 wherein the surface of said inner wall
~~being of a pastel color so as to provide a background for use of blue screen technology.~~

5. The free fall simulator of Claim 3 wherein a circular track is provided in

said chamber; said camera being mounted for movement around a circular track such that
it is movable to capture said flyers on film or tape at any location and at any angle within
said chamber.

6. The free fall simulator of Claim 2 wherein a secondary wall is provided,
said secondary wall having a diameter less than said primary wall such that the placement
of said secondary wall centrally within said chamber will reduce the diameter of said
column of air.

37 7. The free fall simulator of Claim 1 wherein said air generating means is a series of contiguous fans, said fans being controllable depending on the diameter of said chamber.

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10. The free fall simulator of Claim 6 wherein the surface of said inner wall being of a pastel color so as to provide a background for use of blue screen technology.

11. The free fall simulator of Claim 6 wherein a camera is provided within said chamber, said camera being remotely positionable to photograph said flyers against the background provided by the walls of said chamber

12. The free fall simulator of Claim 6 wherein said air generating means is a series of contiguous fans, said fans being controllable depending on the diameter of said chamber.